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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/633,253	08/04/2003	Tomoyuki Ohzeki	FSF-031431	6336
7590 11/02/2004		EXAMINER		
Margaret A. Burke			CHEA, THORL	
c/o Yumi Yerks Apartment #412-North			ART UNIT	PAPER NUMBER
2111 Jefferson Davis Highway Arlington, VA 22202			1752	
			DATE MAILED: 11/02/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/633,253	OHZEKI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Thorl Chea	1752			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE.	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 04 A	<u>ugust 2003</u> .				
2a) ☐ This action is FINAL . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) ⊠ Claim(s) 1-20 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1-3, 7, 10-20 is/are rejected. 7) □ Claim(s) 4-6,8 and 9 is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc		Examiner.			
Applicant may not request that any objection to the	drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	• • • • • • • • • • • • • • • • • • • •	•			
Priority under 35 U.S.C. § 119					
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s)					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>08042003</u>. 	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 10-15, 20 are rejected under 35 U.S.C. 102(b) as being anticipated by Arai et al (US Patent No. 6,090,538). See columns 53-57, example 3 and samples in Table 10, samples B that contains hydrazine I-4, I-7, I-8. The material a hydrazine compound having associated therewith a mercapto compound having property within the meaning of "a compound having a group that is absorptive to the silver halide and a group that reduces silver halide, or a precursor of a compound that having a group that is adsorptive to silver halide and the group that reduces silver halide". The mercapto moiety is part of the group that adsorbs to silver halide and the hydrazine moiety is part to reduce the silver halide. Accordingly, the photothermographic as claimed lacks novelty.
- 3. Claims 1, 10-15 are rejected under 35 U.S.C. 102(b) as anticipated by Okada et al (US Patent No. 6,120,983). See the composition of the photothermographic material of Okada in the abstract which contains known silver salt, photosensitive silver halide, reducing agent and binder; the exemplified compounds in columns 11-20 compounds 1-55 which contains a compound having property within the scope of "a compound having a group that is adsorptive to silver halide and a group that reduces a silver halide, or a precursor of the compound having a group that is adsorptive to silver halide and a group

that reduces a silver halide" claimed in the present claimed invention. Okada discloses a material within the scope as claimed, and therefore, the claimed invention lacks novelty.

4. Claims 1-3, 10-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US Patent No. 6,120,983). See silver halide including silver iodide and silver bromoiodide in column 36, lines 4-15; the size of silver halide from 20 nm to 120 nm in column 35, lines 38-50; binder including poly(vinylbutyral) in column 41, lines 13-52. See also the composition of the material in the abstract and exemplified compounds in columns 11-20 compounds 1-55 which contains a compound having property within the scope of "a compound having a group that is adsorptive to silver halide and a group that reduces a silver halide, or a precursor of the compound having a group that is adsorptive to silver halide and a group that reduces a silver halide" claimed in the present claimed invention. It would have been obvious to the worker of ordinary skill in the art at the time the invention was made to use the known silver iodide, silver iodobromide in combination with known binder such as poly(vinylbutyral) and a compound having a group that is adsorptive to silver halide and a group that reduces a silver halide, or a precursor of the compound having a group that is adsorptive to silver halide and a group that reduces a silver halide with an expectation of success, and thereby provide a material as claimed

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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6. Claims 1-3, 7, 10-20 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Katoh et al (US Patent No. 5,968,725). See Katoh as a whole which discloses a photothermographic material having silver halide, an organic silver salt, a reducing agent and ultrahigh contrast promoting agent having a group for promoting adsorption to silver halide. See the exemplifiec compound in columns 5-6, compound I-2 to I-4; columns 7-8, compound I-6-I-8; columns 13-17, compound I-23. The compounds contain the mercapto moiety which is part of the group that adsorb to silver halide and the hydrazine moiety, which is part to reduce the silver halide. The compounds I-23 contains the ring -N-C=O within the meaning lactam ring. See also the compound in column 75, compound I-18 which contains a mercapto moiety and a phenyl substituted with hydroxyl group; the group for promoting adsorption to silver halide in column 49-50, to lines 51, lines 1-3; the silver halide including silver iodide in column 92, lines 61-68; the binder in column in 92, lines 6-20, including poly(vinylbutyral), and the binder may be dispersed in water, organic solvent, or emulsion to from a dispersion which is coated to form a layer. Katoh teaches both the use of the compound of present claimed invention such as shown above. Therefore, the invention as claimed lacks novelty; alternatively, it would have been obvious to the worker of ordinary skill in the art the time the invention was made to use the compound within the scope of hydrazine disclosed therein with an expectation of achieving a material with high image contrast, and thereby obtained a material as claimed.

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35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the

Claims 4-6, 8 would be allowable if rewritten to overcome the rejection(s) under

limitations of the base claim and any intervening claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thorl Chea whose telephone number is (571) 272-1328.

The examiner can normally be reached on 9 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Cynthia H Kelly can be reached on (571)272-1526. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

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more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

October 27, 2004

Thorl Chea **Primary Examiner**

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